

<p>91-250601/34 L02 M25 GOSSROI CONCRETE 25.02.88-SU-407251 (30.09.90) CO4b-28/08 CO4b-38/08 GOSS = 25.02.88 *SU 1595-823-A Raw material compsn. for lightweight concrete prodn. - contains slag Portland cement, finely ground slag additive, slag pumice, air- entraining additive, bauxite slurry and water C91-109064</p>	<p>The raw material compsn. contains (in wt. %): slag-Portland cement 5.9-10.5; finely ground slag additive 2.1-5.1; slag pumice fraction 5-20 mm 40.9-41.8; slag pumice fraction not greater than 5 mm 28.7-32.4; and air-entraining additive (i.e. a 5:1 pls.wt. mixt. of neutralised air- entraining tar and sulphite-yeast residues in the form of 5% solns.) 0.5-0.6; bauxite slurry from alumina prodn. 1.6-5.9 and water the remainder. The finely ground slag additive is obt'd. from blast furnaces and it contains (in %): SiO<sub>2</sub> 37.5; Al<sub>2</sub>O<sub>3</sub> 6.7; Fe<sub>2</sub>O<sub>3</sub> 0.4; CaO 44.2; R<sub>2</sub>O (R = alkali metal) 6.7; Tl 2.1; and calcination loss the remainder. The bauxite slurry is used as an active mineral additive and is obt'd. as a waste prod. in the hydrochemical prodn. of alumina. The slurry comprises (in %): SiO<sub>2</sub> 22.5; Al<sub>2</sub>O<sub>3</sub> 7.2; Fe<sub>2</sub>O<sub>3</sub> 20.8; CaO 39.3; R<sub>2</sub>O 3.5; Tl 0.4; and calcination loss the remainder. USE/ADVANTAGE . Prepn. of lightweight compsns. contg. porous slag fillers for the building industry. The use of the bauxite slurry component reduces the consumption of cement to 115-200 kg/cu.m for concrete grade 'M 60' and increases its resistance in</p>
<p>L(2-D3) M(25-E1, 25-G1) aggressive media. Bul.38/30.9.80 (4pp DWG.No.0/0)</p>	